

Naval Command,  
Control and Ocean  
Surveillance Center  
RDT&E Division

San Diego, CA  
92152-5001



SEP 10 1995

# Lifecycle Management

## Hazardous Materials/ Hazardous Waste

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**NAVAL COMMAND, CONTROL AND  
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RDT&E DIVISION  
San Diego, California 92152-5001**

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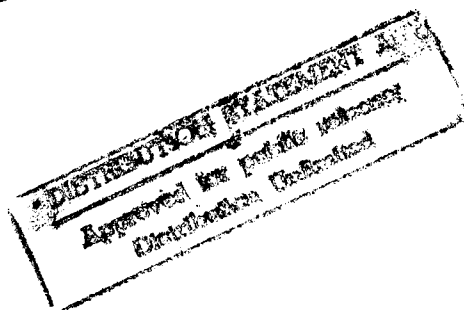
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**ADMINISTRATIVE INFORMATION**

This document was prepared by the NRaD Hazardous Materials/  
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## INTRODUCTION

This document, which applies to all military, civilian, and contractor personnel, establishes the guidelines for lifecycle management (LCM) of hazardous materials/hazardous waste. Recognizing the unique and fragile ecosystem that exists within the Point Loma Naval Complex, and the Navy's role as steward of the environment for current and future generations, Naval Command, Control and Ocean Surveillance Center RDT&E Division (NRaD) policy supports full compliance with federal, state, local, and Navy rules, regulations, and policies (references 1–13).

## WHAT YOU NEED TO KNOW ABOUT HAZARDOUS MATERIALS

Hazardous material (HM) is any material which, because of its quantity, concentration, or physical or chemical characteristics, poses a present or potential hazard to human health and safety or to the environment.

**How Do I Know If Something Is Hazardous?** The first place to look is on the container of the substance. There are many different types of labels, but if a chemical is hazardous, the label will usually tell you. So play it safe. Get in the habit of reading the labels on all containers—and follow all instructions. If you have any questions, ask your supervisor or refer to the Material Safety Data Sheet (MSDS).

**Label.** All HM must be labeled with the following information: chemical name (in English), chemical hazards, date received (or created, if an in-house material or solution), and name of owner/code. The manufacturer's original label usually contains most of the required information. All original and secondary containers must be properly labeled.

**Common Name.** The common name is any designation or identification, such as trade name, brand name, or generic name used to identify a chemical other than by its chemical name.

**Authorized Use List (AUL).** The AUL is a list of HM approved by the Safety and Environmental Office (Code 038) for use. The user/requester must verify that the requested HM is on their code's AUL (reference 7). If not, check with Code 038 for assistance.

**Substitution.** To minimize the generation of HW, every attempt shall be made to identify and use nonhazardous or less hazardous material.

**Standard Operating Procedure (SOP).** SOPs are written health and safety guidelines for HM use, handling, storage, and spill cleanup. They are required for all carcinogens and reproductive toxins listed in the California Code of Regulations (reference 4). User codes must submit a copy of the SOP to Code 0383 for approval prior to acquisition or use of such material. Following approval, the SOP must be posted in all areas where the material is stored or used.

**Inventory.** Following NRad's Inventory Format guidelines, an itemized listing of HM, chemical substances, or components known or suspected to contain HM must be made for each code's current store of HM. The inventory must include, but not be limited to, responsible users (including contractors), HM locations, HM nomenclature, manufacturer, stock numbers, and quantities.

**Storage.** Adequate and proper storage must be available prior to receiving HM. This is necessary to avoid fire, explosion, generation of toxic fumes, or other hazardous reactions. Reference 13 provides compatibility guidance.

**Ozone Depleting Substance (ODS).** An ODS is a chlorine- or bromine-containing molecule (usually, but not always, a chlorofluorocarbon) having a high ozone-depleting potential that travels to the stratosphere where it dissociates. The resulting chlorine (or bromine) radical reacts to destroy surrounding

ozone molecules. Production of all Class I ODSs (table 1) will cease 31 December 1995. Purchases of ODSs (either the pure chemical or a constituent of a mixed product) require Senior Executive Official approval (reference 12). Requesters should actively seek substitutes.

**Material Safety Data Sheet (MSDS).** The MSDS contains information on the chemical and physical properties of the material, health and physical hazards of the material, and emergency and first aid information. When ordering any HM, the purchase order must request that an MSDS be provided by the supplier. The MSDS must be on file at the site where any HM is used or stored and be readily accessible to all employees during their workshift. MSDSs must be maintained for all HM in the workplace and reviewed prior to working with HM.

**Protective Equipment.** Personal protective equipment and administrative/engineering controls must be considered when handling HM.

**Physical Hazard.** Any material that can cause fire, explosion, violent chemical reactions, or other similar hazardous situations is considered a physical hazard.

**Health Hazard.** Any material that can cause illness or injury when a person is exposed either by ingestion, skin or eye contact, skin absorption, or inhalation is considered a health hazard.

## **PURCHASING HAZARDOUS MATERIALS**

**Inventory Procedures.** The acquisition phase is detailed below and outlined in the Acquisition Flowchart (figure 1). Prior to purchasing HM, consider the following points:

(a) *Inventory Minimization (references 5–12).* HM minimization reduces costs and liabilities. To avoid excess inventories and excess generation of HW, and to limit the potential for large

spills, only the minimum quantities of HM required for a project should be ordered. For ongoing projects (6 months or longer), no more than a 3-month supply should be ordered at a given time. The user code is responsible for adding the HM to their inventory.

*(b) Existing Inventory.* To avoid duplication of stock, the user/requester shall check the requesting code's existing inventory before ordering HM. Code 038 will screen HM requests against NRaD's Master Inventory. If the material is available in another code, the requester will be notified.

**Material Acquisition.** The three methods for acquiring HM are ServMart direct purchase, stub requisition for supplies, and HM acquired pursuant to contractual requirements. All HM acquisitions, regardless of method (excluding credit card, which is not allowed) require completion of an HM Pre-Purchase Checklist (figure 2).

Note that certain HM packaging requires special treatment once the HM has been used; for example, the State of California considers all used batteries to be Hazardous Waste (HW); therefore, all new batteries are to be treated as HM. Another example is compressed gas (i.e., greater than 40 psi at 70°F). Requisitions for compressed gas should also address the return or disposal of the expended/unwanted cylinders. Such cylinders cannot be disposed of through the Public Works Center (PWC).

**ServMart Requisition.** The user/requester shall submit a completed HM Pre-Purchase Checklist, via their Environmental Coordinator, for forwarding to Code 0383 within 5 working days after purchase. For HM obtained from ServMart, the NRaD Library, as well as Code 038, can assist in retrieving the required MSDSs from the DoD Hazardous Material Information System (HMIS).

**Stub Requisition.** All stub requisitions (NOSC-SD 4235/4) shall have an HM Pre-Purchase Checklist attached before routing to Code 038 for internal approval. The Checklist shall be

completed by the user and signed by the code's Environmental Coordinator before submitting the stub to the supervisor for signature. Code 0383 will retain the checklist. HM requests submitted via the Electronic Paperwork System (EPS) shall have a copy of the checklist faxed to Code 038 (ext. 3-6756) at the same time the stub is electronically routed to Code 038. Stub requests (paper or EPS) will not be approved without a signed copy of the HM Pre-Purchase Checklist.

**Contract Requirements.** Where HM will be used on NRaD property, the Contracting Officer shall include the "Occupational Safety and Health Requirements" clause in the contract and require the contractor to give notice of an HM requirement to the Contracting Officer's Representative (COR). The contractor will normally retain ownership of any HM used and will obtain, use, and dispose of any HM/HW pursuant to all applicable laws, regulations, and instructions.

Where HM must be retained by the government, the contractor shall notify the COR of such a requirement. Upon notice, the COR shall execute a HM Pre-Purchase Checklist. The COR is responsible for ensuring that the HM acquisition meets the checklist requirements and for submitting the checklist to Code 038 via the code's Environmental Coordinator. If the HM is in the code's inventory, the HM may be provided to the contractor as government-furnished equipment (GFE). If HM is acquired from the contractor, the COR is responsible for entry of that acquired HM into the code's inventory and the Spill Contingency Plan (SCP).

**Receipt/Acceptance.** When HM is received, the condition of the material should be noted. Leaking, damaged, or open containers shall be rejected and the supplier and requester notified. HM should not be accepted, unless an MSDS accompanies the material or the code already has the appropriate MSDS on site.



**Supply Purchased Items.** The Supply Department shall be responsible for obtaining MSDSs for open market purchases of HM in accordance with references 1 and 2. The NRaD Library, as well as Code 038, can assist in retrieving MSDSs for HM purchased through the National Stock System.

## **SPILLS**

**Spills and the Spill Contingency Plan (SCP).** All HM used or stored by a code must be included in that code's SCP prior to acquisition. An SCP is a written response plan incorporating the following: general layout of the location, building floor plans, evacuation routes, HM/HW inventory, spill response equipment list, immediate emergency action plan, and training requirements. The supervisor is responsible for ensuring that the code has a written SCP and that the employees are trained in the details of the plan. If a large spill should occur (as defined by the SCP), Code 038 must be notified immediately. If a spill or discharge is reportable to an outside agency, Code 038 will be responsible for such notification. Requests for emergency response should be directed to the Federal Fire Department, ext. 9-911. Requests for spill cleanup and supplies should be directed to the Safety and Environmental Office, ext. 3-5024.

## **HAZARDOUS WASTE**

Hazardous waste (HW) is any discarded, excess, or spilled material (solid, liquid, or gaseous) that meets the definition of HM. The State of California recognizes HW in one of two ways: (a) it either exhibits a characteristic of HW (ignitable, corrosive, reactive, or toxic), or (b) it is a listed HW. Lists of California HW can be found in reference 4.

HM no longer needed or no longer suitable for its intended purpose is considered HW unless the material can be recycled or reused by others. HW generators will make the initial determination. Specific questions may be directed to Code 038 if the generator is uncertain.

**Environmental Coordinators** (also known as HM/HW Coordinators). Environmental Coordinators, designated at the division or branch level, shall have a good working knowledge of NRaD's acquisition procedures; HM/HW transportation, labeling, tracking, storage, recycling, disposal, and training requirements; and their code's HM inventory, HM usage, HW generation, and the SCP. The Coordinator shall contact Code 0384, ext. 3-7464, when a HW pickup is required and provide a consolidated list of HW for disposal (figure 3).

Coordinators shall ensure that HW areas are inspected weekly (figure 4) and all appropriate signs are posted. Written records of such inspections and corrective actions taken are to be retained for at least 3 years. Coordinators shall retain copies of all County health permits, written Notices of Violation, and corrective action documentation.

Coordinators shall ensure that all HW is transferred to Code 0384 within appropriate time limits.

**Label.** All HW must be properly identified and labeled (upon generation). At the time of pickup, all paperwork (HW Disposal Request, HW Profile Sheet, MSDS) shall be checked for completeness. Containers will be checked for structural integrity and proper labeling with the Hazardous Waste Label (NRaD 5104/4). (See figure 5.)

## **STORAGE AND DISPOSAL**

**Containers.** HM or HW must be compatible with the container in which it is stored and with other material or waste in the container. The containers must be in good condition, kept closed, except when adding or removing waste, and have secondary containment. These containers shall not be stored in sinks or near storm or floor drains. The containers must be checked weekly for leaks, labeling, closure, etc.

**Storage of HW within the Code.** An HW Storage Area is to be maintained within each code until the HW is picked up by Code 0384. **Codes are not to transport HW.** Pickup will take place no more than 45 days from the initial accumulation start date or within 72 hours from the satellite accumulation quantity/time limit. All HW storage areas shall be inspected weekly.

**HW Generators.** HW generators must appropriately identify any HW they generate. The HW must be properly managed, including storage, markings, and containment. The users of HM are responsible for initiating the disposal procedures, including notifying (and receiving guidance from) their Environmental Coordinators, as soon as HW is identified.

**Unknown Waste.** Waste of unknown composition must be analyzed prior to disposal. Containers should be sampled and labeled: "Awaiting laboratory analysis." It is not a declared HW if the hazards are unknown. Code 0384 can assist in arranging for analysis.

**Satellite Accumulation Area (SAA).** SAA is "... the initial accumulation point which is at or near the area where the (hazardous) waste is generated and which is under the control of the operator of the process generating the waste. . ." (reference 4). With Code 0384 approval, HW may be accumulated up to 9 months from the satellite accumulation start date, **or** up to 55 gallons of HW, **or** one quart of **acutely, toxic** or **extremely hazardous** waste may be accumulated, whichever occurs first. When the quantity or time limit has been reached, HW must be removed to Code 0384 within 72 hours, accompanied by an HWPS (figures 6 and 7) and the appropriate MSDS(s).

**HW Storage Facility.** The HW Storage Facility located at Building 145, Bayside, is maintained by Code 0384. HW is stored here less than 60 days from the initial accumulation start date. Inventories shall be performed and arrangements made with PWC for HW to be picked up on a weekly basis from the HW

Storage Facility. Compressed gas cylinders, explosives, medical/infectious waste, Otto fuel, and radioactive wastes are disposed of through an outside contractor. All HW must be removed from NRaD within 60 days of the accumulation start date.

**Ultimate Disposal.** Properly managed HW shall be sent to a certified HW Treatment, Storage, and Disposal Facility (TSDF). The waste either will be incinerated to decomposition or treated to make it less hazardous, and then buried in a regulated landfill. NRaD's liability for such waste extends indefinitely.

## **TRANSPORTATION**

**Regulations.** All HM/HW shall be transported in accordance with Department of Transportation regulations. No HM/HW shall be transported on public roads without proper placarding and licensing. Shipping/Receiving will deliver all new HM. **Transportation of HW within NRaD will be provided by Code 0384.** Codes are not to deliver HW to NRaD's HW Storage Facility. Disposal of all HW off NRaD (this includes both the PWC and contractual disposal) will be coordinated through Code 038.

## **RESPONSIBILITIES**

**Training.** The quantity and type of training required will be dependent on the employee's job function. Code 038 shall train supervisors and/or Environmental Coordinators. Supervisors are responsible for ensuring their employees are trained commensurate with their duties. Code 038 can assist in developing HM/HW training programs and annual refresher courses. Topics include awareness training, hazard communication, HM/HW management, spill response, and safety training. Copies of training records and job descriptions for employees whose duties include handling HM/HW must be available at the work site.

**HM Users.** HM users must develop SOPs for all HM in their inventory that require them. They must complete an HM Pre-Purchase Checklist prior to acquiring HM, properly manage all HM in their workspace, and review the appropriate MSDSs prior to working with HM.

**Environmental Coordinators.** Environmental Coordinators, designated at the division or branch level, are responsible for reviewing/signing the HM Pre-Purchase Checklist, maintaining current HM inventories, managing and arranging disposal of their code's HW via Code 0384, and maintaining disposal/inspection records.

**Division Heads.** Division heads are responsible for ensuring all of their employees have accurate job descriptions and appropriate training. At a minimum, all employees who handle or store HM (and/or HW) shall receive Hazard Communication training and be trained in the Division's SCP. All employees who generate or handle HW shall be trained in HW management. They shall designate Environmental Coordinators for their divisions by memorandum and provide a copy to Code 038.

**Safety and Environmental Manager.** The Safety and Environmental Manager shall oversee the HM/HW program and shall ensure that all supervisors and Environmental Coordinators are provided appropriate training.

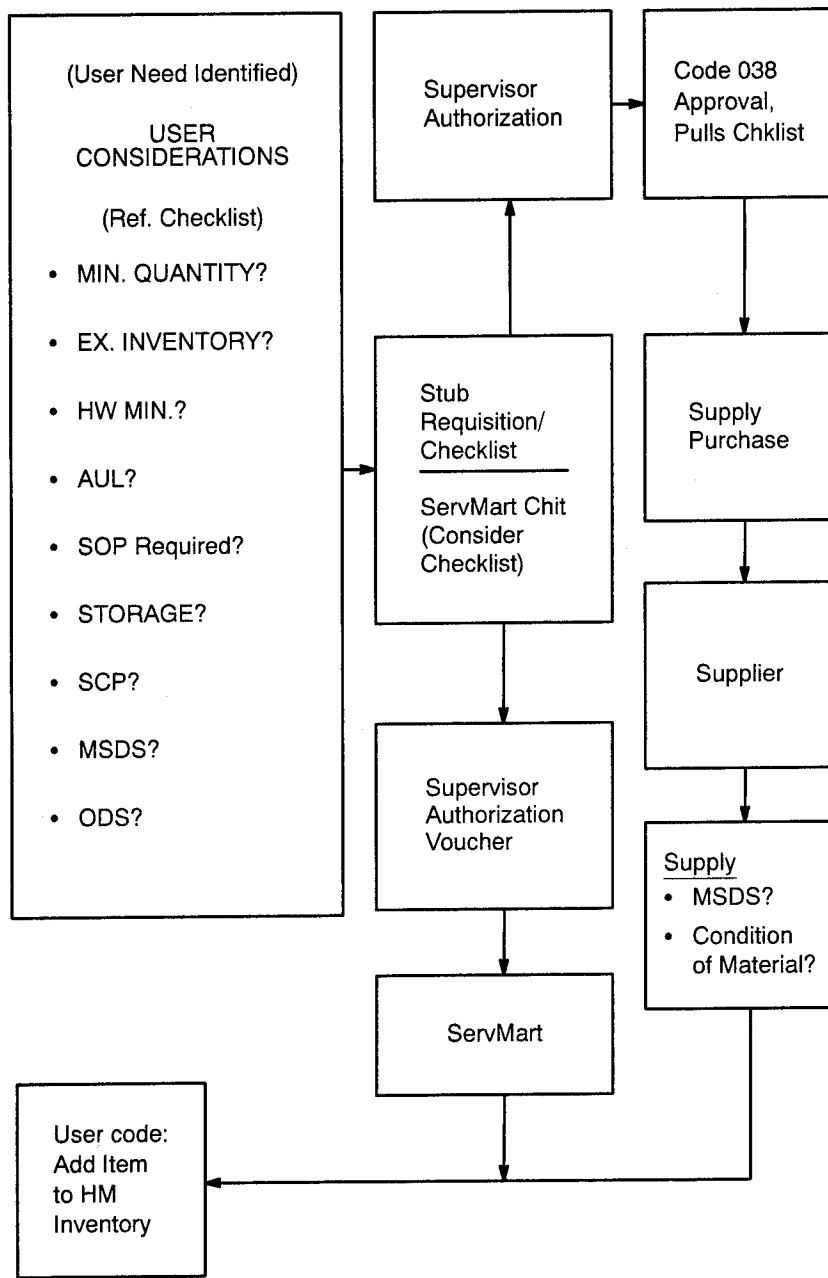
**All Employees.** NRaD employees shall abide by all applicable HM/HW regulations.

**Contractors.** NRaD contractors shall abide by all applicable HM/HW regulations. This includes maintaining a current HM inventory accompanied by an MSDS for all HM on NRaD property.

## OZONE DEPLETING SUBSTANCES

**Table 1.** Class I Ozone Depleting Substances (ODS):

Common Name	Chemical Name
CFC-11 (R-11)	Trichlorofluoromethane
CFC-12 (R-12)	Dichlorodifluoromethane
CFC-13 (R-13)	Chlorotrifluoromethane
CFC-111 (R-111)	Pentachlorofluoroethane
CFC-112 (R-112)	Tetrachlorodifluoroethane
CFC-113 (R-113)	Trichlorotrifluoroethane
CFC-114 (R-114)	Dichlorotetrafluoroethane
CFC-115 (R-115)	Chloropentafluoroethane
CFC-211 (R-211)	Heptachlorofluoropropane
CFC-212 (R-212)	Hexachlorodifluoropropane
CFC-213 (R-213)	Pentachlorotrifluoropropane
CFC-214 (R-214)	Tetrachlorotetrafluoropropane
CFC-215 (R-215)	Trichloropentafluoropropane
CFC-216 (R-216)	Dichlorohexafluoropropane
CFC-217 (R-217)	Chloroheptafluoropropane
CFC-500 (R-500)	Azeotropic mixture of CFC-12/HFC-152a (Dichlorodifluoromethane/ Difluoroethane)
CFC-502 (R-502)	Azeotropic mixture of CFC-115/HCFC-22 (Chloropentafluoroethane/ Chlorodifluoromethane)
CFC-503 (R-503)	Azeotropic mixture of CFC-13/HFC-23 (Chlorotrifluoromethane/ Trifluoromethane)
Halon 1202	Dibromodifluoromethane
Halon 1211	Bromochlorodifluoromethane
Halon 1301	Bromotrifluoromethane
Halon 2402	Dibromotetrafluoroethane
Methyl Chloroform	1,1,1-Trichloroethane
Carbon Tetrachloride	Tetrachloromethane
CFC-Chlorofluorocarbons (also referred to as Freons)	



**Figure 1. Acquisition Flowchart**

<b>NRaD HAZARDOUS MATERIAL PRE-PURCHASE CHECKLIST</b>		
ATTACH COMPLETED FORM TO STUB REQUISITION AND FORWARD TO CODE 0383 FOR APPROVAL , OR FAX X36756		
Name of Material	Stub Number	Date
Requester's Name	Code	Extension
<b>Y</b>	<b>N</b>	PLEASE ANSWER EACH ITEM BELOW:
		<p>1. Is this the <b>MINIMUM QUANTITY</b> required?</p> <p>2. Has the Codes's <b>INVENTORY</b> been checked?</p> <p>3. Are there any less hazardous/non-hazardous <b>SUBSTITUTES</b>?</p> <p>4. Is this hazardous material on your <b>AUTHORIZED USE LIST</b>?</p> <p style="padding-left: 20px;">If no, is this material on the Center's <b>AUTHORIZED USE LIST</b>?</p> <p>5. Is this material a carcinogen or reproductive toxin?</p> <p style="padding-left: 20px;">If yes, have you submitted a <b>STANDARD OPERATING PROCEDURE</b> to Code 0383?</p> <p style="padding-left: 20px;">If yes, has the <b>SOP</b> been approved by Code 0383 prior to purchase?</p> <p>6. Do you have adequate and appropriate <b>STORAGE</b> for this hazardous material?</p> <p style="padding-left: 20px;">If yes, where? _____</p> <p>7. Do you have a <b>SPILL CONTINGENCY PLAN</b> that includes this hazardous material?</p> <p>8. Does the Stub Requisition clearly state that a <b>MATERIAL SAFETY DATA SHEET</b> shall be provided by the supplier with the delivery of this hazardous material?</p> <p>9. List all <b>OZONE DEPLETING SUBSTANCES</b> (by constituent) found in this product.</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;">a. _____</div> <div style="width: 45%;">c. _____</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;">b. _____</div> <div style="width: 45%;">d. _____</div> </div>
HM/HW Coordinator's Signature:		Date:

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**Figure 2.** NRaD Hazardous Material Pre-Purchase Checklist





Bldg. \_\_\_\_ Hazardous Waste Storage Area (SD Co. HMMD Permit: H80 \_\_\_\_ ) Weekly Inspection Checklist  
(CCR 66265.15, 66265.174, 40 CFR 265.15, 265.174)

		Problems Discovered	Corrective Action Taken	Date Corrected
1. Are all containers properly labeled? (CCR 66262.34, 40 CFR 262.34)	SAT UNSAT			
2. Are all containers closed? (CCR 66265.173, 40 CFR 265.173)	SAT UNSAT			
3. Are containers compatible with the hazardous waste stored in them? (CCR 66265.172, 40 CFR 265.172)	SAT UNSAT			
4. Are all containers in good condition, i.e., not damaged or leaking? (CCR 66265.171, 40 CFR 265.171)	SAT UNSAT			
5. Are incompatibles stored separately, i.e., not in the same container and not in the same tray? (CCR 66265.177, 40 CFR 265.177)	SAT UNSAT			
6. Do all containers have secondary containment? (CCR 66265.177, 40 CFR 265.177)	SAT UNSAT			
7. Are all containers moved to Code 0384 within 45 days? (CCR 66262.34, 40 CFR 262.34)	SAT UNSAT			
8. Is there adequate aisle space? (CCR 66265.35, 40 CFR 265.35)	SAT UNSAT			
9. Is there a working communication system available? (CCR 66265.32, 66265.34, 40 CFR 265.32, 265.34)	SAT UNSAT			
10. Are a fire extinguisher, safety shower/eyewash, and spill kit available nearby? (CCR 66265.32, 40 CFR 265.32)	SAT UNSAT			

Note: CCR refers to CCR Title 22 Division 4.5

Room No. \_\_\_\_\_ : Inspected by \_\_\_\_\_ on (date) \_\_\_\_\_ at (time) \_\_\_\_\_

**Figure 4. NRad Hazardous Waste Storage Area Weekly Inspection Checklist**

HAZARDOUS WASTE			
FEDERAL LAW PROHIBITS IMPROPER DISPOSAL			
IF FOUND, CONTACT THE COMMAND DUTY OFFICER AT:			
NAME <b>NCCOSC RDT&amp;E DIVISION (CODE _____)</b>			
ADDRESS <b>53560 HULL STREET</b>			
CITY <b>SAN DIEGO</b>	STATE <b>CA</b>	ZIP <b>92152-5001</b>	
CONTENTS/COMPOSITION			
PHYSICAL STATE <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS			
HAZARD CLASS <input type="checkbox"/> IGNITABLE <input type="checkbox"/> REACTIVE <input type="checkbox"/> CORROSIVE <input type="checkbox"/> TOXIC			
ACCUMULATION START DATE			
TRANSFER TO CODE 0384 WITHIN 45 DAYS OF THE ABOVE DATE.			

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SATELLITE ACCUMULATED HAZARDOUS WASTE			
FEDERAL LAW PROHIBITS IMPROPER DISPOSAL			
IF FOUND, CONTACT THE COMMAND DUTY OFFICER AT:			
NAME <b>NCCOSC RDT&amp;E DIVISION (CODE _____)</b>			
ADDRESS <b>53560 HULL STREET</b>			
CITY <b>SAN DIEGO</b>	STATE <b>CA</b>	ZIP <b>92152-5001</b>	
CONTENTS/COMPOSITION			
PHYSICAL STATE <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS			
HAZARD CLASS <input type="checkbox"/> IGNITABLE <input type="checkbox"/> REACTIVE <input type="checkbox"/> CORROSIVE <input type="checkbox"/> TOXIC			
SATELLITE ACCUMULATION START DATE		TRANSFER TO CODE 0384 WITHIN 9 MONTHS OF THIS DATE OR WITHIN 3 DAYS AFTER CONTAINER IS FULL	
90-DAY ACCUMULATION START DATE			

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Figure 5. NRaD Hazardous Waste Labels

HAZARDOUS WASTE PROFILE SHEET			
<b>PART I</b>			
<b>A. GENERAL INFORMATION</b>		WASTE PROFILE NO. <u>66001</u>	
1. GENERATOR NAME <u>POINT LOMA NAVAL COMPLEX</u>			
2. FACILITY ADDRESS <u>NAVAL COMMAND, CONTROL AND OCEAN SURVEILLANCE CENTER</u>		3. GENERATOR USEPA ID <u>CA1170090020</u>	
<u>NOTES DIVISION 53560 HULL STREET</u>		4. GENERATOR STATE ID <u>HA HQ 36-043250</u>	
<u>SAN DIEGO CALIFORNIA</u>		5. ZIP CODE <u>92152-5001</u>	
6. TECHNICAL CONTACT		7. TITLE <u>PHONE 619</u>	
8. 1. NAME OF WASTE _____			
2. USEPA/STATE WASTE CODE(S) _____			
3. PROCESS GENERATING WASTE _____			
4. PROJECTED ANNUAL VOLUME/UNITS _____ 5. MODE OF COLLECTION _____			
6. IS THIS WASTE A DIOXIN LISTED WASTE AS DEFINED IN 40 CFR 261.31 (e.g., P020, P021, P022, P023, P026, P027, OR P028)? <input type="checkbox"/> YES <input type="checkbox"/> NO			
7. IS THIS WASTE RESTRICTED FROM LAND DISPOSAL (40 CFR 268)? <input type="checkbox"/> YES <input type="checkbox"/> NO			
HAS AN EXEMPTION BEEN GRANTED? <input type="checkbox"/> YES <input type="checkbox"/> NO			
DOES THE WASTE MEET APPLICABLE TREATMENT STANDARDS? <input type="checkbox"/> YES <input type="checkbox"/> NO REFERENCE STANDARDS _____			
<b>PART II</b>			
1. MATERIAL CHARACTERIZATION (OPTIONAL-NOT REQUIRED DATA)		4. MATERIAL COMPOSITION	
COLOR _____		COMPONENT	
DENSITY _____ BTU/LB		CONCENTRATION	
TOTAL SOLIDS _____ ASH CONTENT _____		RANGE	
LAYERING: <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BILAYERED <input type="checkbox"/> SINGLE PHASE			
2. RCRA CHARACTERISTICS			
PHYSICAL STATE: <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> SEMI-SOLID			
<input type="checkbox"/> GAS <input type="checkbox"/> OTHER			
TREATMENT GROUP: <input type="checkbox"/> WASTEWATER <input type="checkbox"/> NON-WASTEWATER			
<input type="checkbox"/> IGNITABLE (D001) <input type="checkbox"/> REACTIVE (D003)			
FLASH POINT (°F) _____		<input type="checkbox"/> WATER REACTIVE	
<input type="checkbox"/> HIGH TOC (> 10%) <input type="checkbox"/> CYANIDE REACTIVE			
<input type="checkbox"/> LOW TOC (< 10%) <input type="checkbox"/> SULFIDE REACTIVE			
<input type="checkbox"/> CORROSIVE (D002) <input type="checkbox"/> TOXICITY CHARACTERISTIC (SEE REVERSE FOR LISTING)		TOTAL _____ 100%	
<input type="checkbox"/> CORRODES STEEL		5. SHIPPING INFORMATION	
3. CHEMICAL COMPOSITION (ppm or mg/L)		DOT HAZARDOUS MATERIAL? <input type="checkbox"/> YES <input type="checkbox"/> NO	
COPPER _____ PHENOLICS _____		PROPER SHIPPING NAME _____	
NICKEL _____ TOTAL HALOGENS _____		HAZARD CLASS _____ U.N. or N.A. NO. _____	
ZINC _____ VOLATILE ORGANICS _____		ADDITIONAL DESCRIPTION _____	
CHROMIUM-HEX _____ PCBs _____		METHOD OF SHIPMENT: <input type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER: _____	
(OTHER) _____		CERCLA REPORTABLE QUANTITY (RQ) _____	
NOTE: EXPLOSIVES, SPACE SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETHOLOGICAL WASTE NORMALLY ARE NOT ACCEPTED BY THE DODS.		EMERGENCY RESPONSE GUIDE PAGE _____	
8. GENERATOR CERTIFICATION		DOT PUBLICATION 5500.4 PAGE NO. _____ EDITION (YR) _____	
BASIS FOR INFORMATION		SPECIAL HANDLING INFORMATION _____	
<input type="checkbox"/> CHEMICAL ANALYSIS (ATTACH TEST RESULTS)			
<input type="checkbox"/> USER KNOWLEDGE (ATTACH SUPPORTING DOCUMENTS - Explain how and why these documents comply with RCRA requirements)			
I, _____, HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS TO THE BEST OF MY KNOWLEDGE AN ACCURATE REPRESENTATION OF THE WASTE TURNED IN TO THE DODS. ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.			
SIGNATURE OF GENERATOR'S REPRESENTATIVE		DATE	

Figure 6. Hazardous Waste Profile Sheet (Parts I and II)

TOXICITY CHARACTERISTIC LIST					
EFFECTIVE 25 SEP 90 - LARGE QUANTITY GENERATORS 29 MAR 91 - SMALL QUANTITY GENERATORS					
CONTAMINANT	EPA HW No.	(mg/L)	CONTAMINANT	EPA HW No.	(mg/L)
<input type="checkbox"/> ARSENIC	D004	_____	<input type="checkbox"/> HEXACHLORO-1,3,5-BUTADIENE	D033	_____
<input type="checkbox"/> BARIUM	D006	_____	<input type="checkbox"/> HEXACHLOROETHANE	D034	_____
<input type="checkbox"/> BENZENE	D018	_____	<input type="checkbox"/> LEAD	D008	_____
<input type="checkbox"/> CADMIUM	D006	_____	<input type="checkbox"/> LINDANE	D013	_____
<input type="checkbox"/> CARBON TETRACHLORIDE	D019	_____	<input type="checkbox"/> MERCURY	D009	_____
<input type="checkbox"/> CHLORDANE	D020	_____	<input type="checkbox"/> METHOXYCHLOR	D014	_____
<input type="checkbox"/> CHLOROBENZENE	D021	_____	<input type="checkbox"/> METHYL ETHYL KETONE	D036	_____
<input type="checkbox"/> CHLOROFORM	D022	_____	<input type="checkbox"/> NITROBENZENE	D038	_____
<input type="checkbox"/> CHROMIUM	D007	_____	<input type="checkbox"/> PENTACHLOROPHENOL	D037	_____
<input type="checkbox"/> O-CRESOL	D023	_____	<input type="checkbox"/> PYRIDINE	D039	_____
<input type="checkbox"/> M-CRESOL	D024	_____	<input type="checkbox"/> SELENIUM	D010	_____
<input type="checkbox"/> P-CRESOL	D025	_____	<input type="checkbox"/> SILVER	D011	_____
<input type="checkbox"/> CRESOL	D026	_____	<input type="checkbox"/> TETRACHLOROETHYLENE	D039	_____
<input type="checkbox"/> 2,4-D	D016	_____	<input type="checkbox"/> TOXOPHENE	D018	_____
<input type="checkbox"/> 1,4-DICHLOROBENZENE	D027	_____	<input type="checkbox"/> TRICHLOROETHYLENE	D040	_____
<input type="checkbox"/> 1,2-DICHLOROETHANE	D028	_____	<input type="checkbox"/> 2,4,6-TRICHLOROPHENOL	D041	_____
<input type="checkbox"/> 1,1-DICHLOROETHYLENE	D029	_____	<input type="checkbox"/> 2,4,6-TRICHLOROPHENOL	D042	_____
<input type="checkbox"/> 2,4-DINITROTOLUENE	D030	_____	<input type="checkbox"/> 2,45-TP (SILVER)	D017	_____
<input type="checkbox"/> ENDRIUM	D012	_____	<input type="checkbox"/> VINYL CHLORIDE	D043	_____
<input type="checkbox"/> HEPTACHLOR (AND ITS HYDROXIDE)	D031	_____			
<input type="checkbox"/> HEXACHLOROBENZENE	D032	_____			

PART III FOR DRMO USE ONLY DRMO VERIFICATION	
1. DATE VERIFIED _____	
2. RESULTS <input type="checkbox"/> ATTACHED	
pH _____ FLASH POINT _____ SPECIFIC GRAVITY _____ HALIDES (TOX) _____	
REACTIVITY: WATER REACTIVITY _____ CYANIDES _____ SULFIDES _____	
TCLP _____	
_____	
_____	
_____	

Figure 7. Hazardous Waste Profile Sheet (Part III)

## **ACRONYMS AND ABBREVIATIONS**

AUL	Authorized Use List
COR	Contracting Officer's Representative
EPS	Electronic Paperwork System
GFE	Government-Furnished Equipment
HM	Hazardous Materials
HMIS	Hazardous Material Information System
HW	Hazardous Waste
HWPS	Hazardous Waste Profile Sheet
LCM	Lifecycle Management
MSDS	Material Safety Data Sheet
NSN	National Stock Number
ODS	Ozone Depleting Substance
PWC	Public Works Center
SAA	Satellite Accumulation Area
SCP	Spill Contingency Plan
SOP	Standard Operating Procedure
TSDf	Treatment, Storage, and Disposal Facility

## REFERENCES

1. Federal Acquisition Regulations (FAR), Subpart 23
2. Defense Federal Acquisition Regulations Supplement (DFARS), Subpart 223
3. FED-STD-313C: Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities
4. California Code of Regulations (CCR), Title 26, Toxics
5. DoD 4160.21-M: Defense Reutilization and Marketing Manual
6. DoD Directive 4210.15: Hazardous Material Pollution Prevention
7. OPNAVINST 4110.2: Hazardous Material Control and Management
8. OPNAVINST 5090.1B: Environmental and Natural Resources Program Manual
9. OPNAVINST 5100.23D: Navy Occupational Safety and Health Program Manual
10. SPAWARINST 4110.1: Hazardous Materials Control and Management for the Space and Naval Warfare Systems Command Headquarters and Field Activities
11. NOSCINST 5100.5C: Occupational Safety and Health Manual
12. SPAWAR memo 5090 Ser 214/068 dated 14 June 1993
13. EPA-600/2-80-076: A Method for Determining the Compatibility of Hazardous Waste



Reviewed and approved by

A handwritten signature in cursive script, appearing to read "S. Marvil". The signature is written in dark ink and is positioned above a horizontal line.

S. P. Marvil, CAPT, USN  
Executive Officer/Base  
Operations Manager

TD 2647  
December 1994

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